Form 830209(E) 8/00

Iowa Department of Transportation

Sheet 1/2

EXCEL FORM .XLS FILE

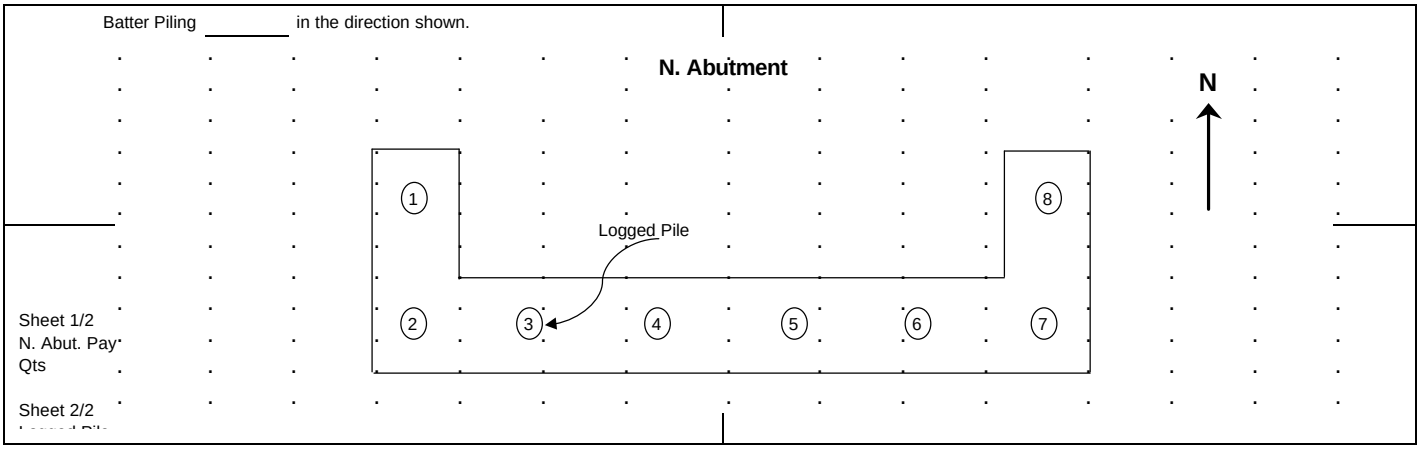
ENGLISH LOG OF PILING DRIVEN WITH WAVE EQUATION

Project No.: Anybody's Guess
County: Someplace in Iowa
Design No.: 389
Location of Foundation Centerline: 1336+88.40
Location: N. Abutment
Contractor: Somebody Construction Co.
Driving Graph No.: 40-0389-1-755

Type of Piling: HP 10 X 42 (Wood, or Steel Size & Type, or Concrete Size & Type)
Hammer (Model & Type): Delmag D-12 (Gravity or Diesel)
Plan Tip Elevation: 1083 Ft.
Plan Driving Resistance: 40 Tons
Observed Blows / Minute: 49-50
Hammer Energy: 22.5 Ft. - Kips

Sketch foundation below. Locate each pile by circles with numbers therein. Note battered piles on sketch,and give the amount of batter. Place name and certificate number of welder below if welding was necessary. Forward copies as outlined in the construction manual. Note on drawing which pile has been logged.

Batter Piling _____ in the direction shown.



Sheet 1/2
N. Abut. Pay Qts

Sheet 2/2
Logged Pile

Pile No.	Date Driven	Length in leads Nearest Foot	Length Cutoff (0.0 ft.)	Length in Structure (0.0 ft.)1	Blows Per Foot	Ram Rise (ft.)	Driven Resistance (Tons)	RETAP 2 Date	RETAP 2 Ram Rise (ft.)	RETAP 2 Blows Per Foot	RETAP 2 Driven Resistance (Tons)	PILE EXTENSIONS 3 Length Added (ft.)	PILE EXTENSIONS 3 Length Cutoff (0.0 ft.)	PILE EXTENSIONS 3 In Structure (0.0 ft.)1	Welds (Count)
1	X-XX-XX	60	—	60.0	33	5.0	31		5.0	35	33	10.0	3.0	7.0	1
2	X-XX-XX	60	0.0	60.0	35	5.0	33		5.5	40	46			0.0	
3	X-XX-XX	60	0.0	60.0	40	5.0	42							0.0	
4	X-XX-XX	60	1.8	58.2	70	6.0	53							0.0	
5	X-XX-XX	60	2.6	57.4	74	6.0	54							0.0	
6	X-XX-XX	60	2.7	57.3	78	6.5	66							0.0	
7	X-XX-XX	60	5.8	54.2	80	6.5	68							0.0	
8	X-XX-XX	60	7.2	52.8	90	6.5	74							0.0	
9		—	—	—										0.0	
10				0.0										0.0	
11				0.0										0.0	
12				0.0										0.0	
13				0.0										0.0	
14				0.0										0.0	
15				0.0										0.0	
16				0.0										0.0	
17				0.0										0.0	
18				0.0										0.0	
				0.0										0.0	
				0.0										0.0	
				0.0										0.0	
				0.0										0.0	
				0.0										0.0	

Total Welds: 1

1 For trestle pile, give length in ground plus length in structure.
2 Indicate date of retap in date column (1 day delay min.). List only pile actually checked.
3 Additional pile length to be authorized by Construction Office.

Length In Structure: **466.9** Feet
Cutoffs 5.0' & Under: 10.1 Feet
Cutoffs over 5.0' x 0.50: 6.5 Feet
Furnished Length: **483.5** Feet

Welders Name: _____ Lab No.: _____ Exp. Date: _____

Remarks: _____

Inspector _____ Date _____ Project Engineer _____

Distribution: Construction (original), District, Project File

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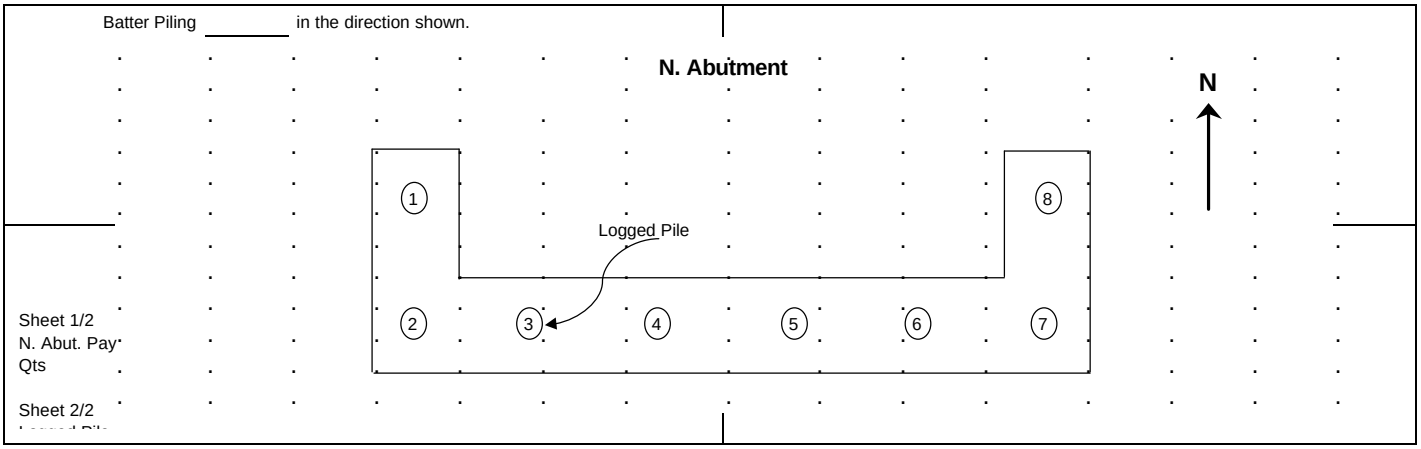
Location: N. Abutment
Contractor: Somebody Construction Co.
Driving Graph No.: 40-0389-1-755

Type of Piling: HP 10 X 42 (Wood, or Steel Size & Type, or Concrete Size & Type)
Hammer (Model & Type): Delmag D-12 (Gravity or Diesel)
Plan Tip Elevation: 1083 Ft.
Plan Driving Resistance: 40 Tons
Observed Blows / Minute: 49-50
Hammer Energy: 22.5 Ft. - Kips

Sketch foundation below. Locate each pile by circles with numbers therein. Note battered piles on sketch,and give the amount of batter. Place name and certificate number of welder below if welding was necessary. Forward copies as outlined in the construction manual. Note on drawing which pile has been logged.

Batter Piling _____ in the direction shown.



Sheet 1/2
N. Abut. Pay Qts

Sheet 2/2

Pile No.	Date Driven	Length in leads Nearest Foot	Length Cutoff (0.0 ft.)	Length in Structure (0.0 ft.)1	Blows Per Foot	Ram Rise (ft.)	Driven Resistance (Tons)	RETAP 2 Date	RETAP 2 Ram Rise (ft.)	RETAP 2 Blows Per Foot	RETAP 2 Driven Resistance (Tons)	PILE EXTENSIONS 3 Length Added (ft.)	PILE EXTENSIONS 3 Length Cutoff (0.0 ft.)	PILE EXTENSIONS 3 In Structure (0.0 ft.)1	Welds (Count)
3	X-XX-XX	60		25.0	6	4.5	10								
				30.0	8	4.5	13								
				35.0	9	4.5	14								
				40.0	12	4.5	17								
				45.0	16	5.0	20								
				50.0	24	5.0	28								
				55.0	30	5.0	30								
				56.0	32	5.0	31								
				57.0	35	5.0	34								
				58.0	37	5.0	36								
				59.0	38	5.0	39								
				60.0	40	5.0	42								

1 For trestle pile, give length in ground plus length in structure.
2 Indicate date of retap in date column (1 day delay min.). List only pile actually checked.
3 Additional pile length to be authorized by Construction Office.

Length In Structure: _____ Feet
Cutoffs 5.0' & Under: _____ Feet
Cutoffs over 5.0' x 0.50: _____ Feet
Furnished Length: _____ Feet

Welders Name: _____ Lab No.: _____ Exp. Date: _____

Remarks: _____

Inspector _____ Date _____ Project Engineer

Distribution: Construction (original), District, Project File

Form [illegible]

Iowa Department of Transportation

ENGLISH LOG OF PILING DRIVEN WITH WAVE EQUATION

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Project No. ANYBODY'S GUESS

County SOMEPLACE IN IOWA

Design No. 389

Location of Foundation Centerline 1336 + 88.40

Location NORTH ABUTMENT (Abutment or Pier)

Contractor SOMEBODY CONS'T. CO.

Driving Graph No. 40-0389-1-755

Type of Piling HP 10 × 42 (Wood, or Steel Size & Type, or Concrete Size & Type)

Hammer (Model & Type) DELMAG D12 (Gravity or Diesel)

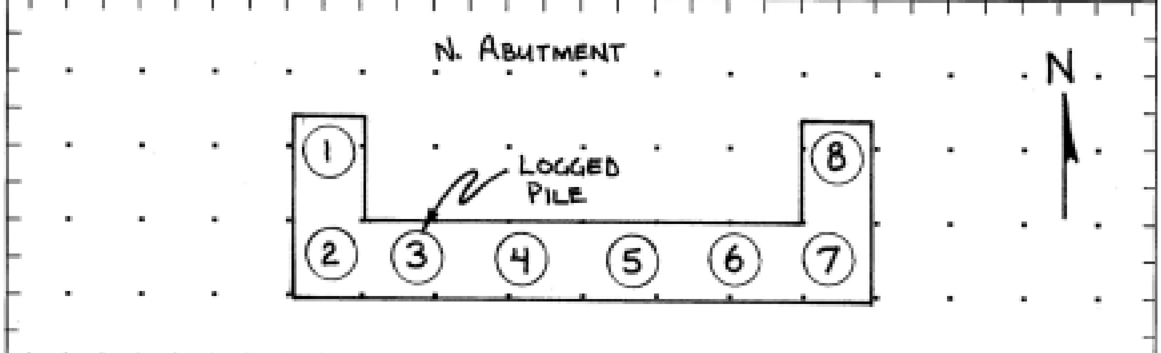
Plan Tip Elevation 1083 ft.

Plan Driving Resistance 40 tons

Observed Blows/Min. 49-50

Hammer Energy 22.5 ft.-Kips.

Sketch foundation below. Locate each pile by circles with numbers therein. Note battered piles on sketch, and give the amount of batter. Place name and certificate number of welder below if welding was necessary. Forward copies as outlined in the construction manual. Note on drawing which pile has been logged.



Pile No.	Date Driven	Length in leads Nearest Foot	Length Cutoff (0.0 ft.)	Length In Structure (0.0 ft.) ①	Blows per Foot	Ram Rise (ft.)	Driven Resistance (Tons)	Date	RETAP ② Ram Rise (ft.)	RETAP ② Blows per Foot	RETAP ② Driven Resistance (Tons)	PILE EXTENSIONS ③ Length Added (ft.)	PILE EXTENSIONS ③ Length Cutoff (0.0 ft.)	PILE EXTENSIONS ③ In Structure (0.0 ft.) ①	WELDS (Count)
1	X-XX-XX	60	—	—	33	5.0	31		5.0	35	33	10.0	3.0	67.0	1
2		60	0.0	60.0	35	5.0	33		5.5	40	46				OK - BY RETAP
3		60	0.0	60.0	40	5.0	42								
4		60	1.8	58.2	70	6.0	53								
5		60	2.6	57.4	74	6.0	54								
6		60	2.7	57.3	78	6.5	66								
7		60	5.8	54.2	80	6.5	68								
8	X-XX-XX	60	7.2	52.8	90	6.5	74								
		480	20.1	399.9											
+		10	3.0	67.0	FROM EXTENSION										
TOTAL		490	23.1	466.9											

LENGTH IN STRUCTURE 466.9'
CUTOFFS ≤ 5' 10.1'
CUTOFFS > 5' (13.0' × 0.50) 6.5'
FURNISH LENGTH 483.5'

WELDER'S NAME -
LAB No. -
SDRS No. -
EXP. DATE -

① For trestle pile, give length in ground plus length in structure.
② Indicate date of retap in date column (7 day delay min.). List only pile actually checked.
③ Additional pile length to be authorized by Construction Office.

Total Welds: 1

Welder's Name ______ Lab No. ______ Exp. Date ______

Remarks ______

Length In Structure: ______ Feet
Cutoffs 5.0' & Under: ______ Feet
Cutoffs over 5.0' x 0.50: ______ Feet
Finished Length: ______ Feet

INSPECTOR & DATE

PROJECT ENGINEER

DISTRIBUTION: Original to Construction, 1 Copy to District, 1 Copy to Project File